

WHAT IS CLAIMED IS:

1. A graphics processing device for performing graphics processing on graphics data with graphics processing control information for use during image quality correction of graphics data, the graphics processing control information being related to the graphics data, said graphics processing device comprising:

an image quality properties acquisition mechanism configured to analyze said graphics data and acquire image quality property information that indicates a property pertaining to an image quality of said graphics data; and

an image quality adjustment mechanism configured to adjust the image quality of said graphics data based on the graphics processing control information and said image quality property information acquired by said image quality properties acquisition mechanism.

2. A graphics processing device according to claim 1, wherein:

said image quality property information is a combination of a plurality of image quality parameter values that indicate image quality properties of said graphics data; and

said image quality adjustment mechanism is configured to perform image quality adjustment by adjusting the image quality of said graphics data so as to reflect said graphics processing control information.

3. A graphics processing device according to claim 1, wherein:

said image quality property information is a combination of a plurality of image quality parameter values indicating image quality properties of said graphics data;

said image quality adjustment mechanism includes standard image quality parameter values serving as a basis for image quality adjustment,

respective of said standard image quality parameter values being predetermined for each of said image quality parameter values; and

said image quality adjustment mechanism performs image quality adjustment by calculating, on the basis of said standard image quality parameter values and said image quality parameter values, a level of correction for correcting said graphics data, increasing or decreasing said level of correction on the basis of an analysis result of said graphics processing control information, and adjusting said graphics data to reflect an increased or decreased level of correction.

4. A graphics processing device according to claim 3, wherein:

the image quality adjustment mechanism is configured to increase or decrease the level of correction made based on the analysis result and by correcting said standard image quality parameter values based on the analysis result.

5. A graphics processing device according to claim 3, wherein:

the image quality adjustment mechanism is configured to increase or decrease the level of correction made based on the analysis result and by determining an appropriate level of correction based on the analysis result.

6. A graphics processing device according to claim 1, further comprising:

a graphics data output mechanism configured to output graphics data subjected to image quality adjustment by said image quality adjustment mechanism.

7. A graphics processing device according to claim 1, wherein:

said graphics processing control information includes correction information for at least one item of information relating to contrast, brightness, color balance, saturation, sharpness, memory color, and noise reduction.

5           8. A graphics processing device according to claim 1, wherein:

said graphics processing control information is stored with the graphics data within one graphics file.

10           9. A method for performing graphics processing on graphics data with graphics processing control information for use during image quality correction of graphics data, the graphics processing control information being related to the graphics data, said method comprising steps of:

analyzing said graphics data;

15           acquiring image quality property information that indicates a property pertaining to an image quality of said graphics data; and

adjusting the image quality of said graphics data based on said graphics processing control information and said image quality property information.

20           10. A method according to claim 9, wherein:

said image quality property information is a combination of a plurality of image quality parameter values that indicate image quality properties of said graphics data; and

said adjusting step includes adjusting the image quality of said graphics data so as to reflect said graphics processing control information.

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11. A method according to claim 9, wherein:

said image quality property information is a combination of a plurality of image quality parameter values indicating image quality properties of said graphics data;

5       said adjusting step includes using standard image quality parameter values serving as a basis for image quality adjustment, respective of said standard image quality parameter values being predetermined for each of said image quality parameter values; and

10       said adjusting step includes calculating, on the basis of said standard image quality parameter values and said image quality parameter values, a level of correction for correcting said graphics data, increasing or decreasing said level of correction on the basis of an analysis result of said graphics processing control information, and adjusting said graphics data to reflect an increased or decreased level of correction.

15       12. A method according to claim 11, wherein:

said adjusting step includes increasing or decreasing the level of correction made based on the analysis result and correcting said standard image quality parameter values based on the analysis result.

20       13. A method according to claim 11, wherein:

said adjusting step includes increasing or decreasing the level of correction made based on the analysis result and by determining an appropriate level of correction based on the analysis result.

25       14. A method according to claim 11, wherein:

said graphics processing control information includes correction information for at least one item of information relating to contrast, brightness, color balance, saturation, sharpness, memory color, and noise reduction.

15. A method according to claim 11, wherein:

said graphics processing control information is stored with the graphics data within one graphics file.

5 16. A graphics processing device for performing graphics processing on graphics data with standard image quality information serving as a basis for image quality correction of graphics data, the standard image quality information being related to the graphics data, said graphics processing device comprising:

an image quality parameter value acquisition mechanism configured to  
10 analyze said graphics data and acquire an image quality parameter value that indicates an image quality property of said graphics data;

a standard image quality parameter value acquisition mechanism  
15 configured to acquire a standard image quality parameter value predetermined for said image quality parameter, based on said standard image quality information; and

an image quality adjustment mechanism configured to adjust the image  
20 quality of said graphics data based on said standard image quality parameter value and said image quality parameter value acquired by said image quality parameter value acquisition mechanism.

17. A graphics processing device according to claim 16, further comprising:

a graphics data output mechanism configured to output graphics data  
25 subjected to image quality adjustment by said image quality adjustment mechanism.

18. A graphics processing device according to claim 16, wherein:

said graphics processing control information includes correction information for at least one item of information relating to contrast, brightness, color balance, saturation, sharpness, memory color, and noise reduction.

5 19. A graphics processing device according to claim 16, wherein:

said graphics processing control information is stored with the graphics data within one graphics file.

10 20. A graphics processing device for performing graphics processing on graphics data with graphics processing control information for use during image quality correction of graphics data, the graphics processing control information being related to the graphics data, said graphics processing device comprising:

15 an image quality parameter value acquisition mechanism configured to analyze said graphics data and acquire an image quality parameter value that indicates an image quality property of said graphics data;

a standard image quality parameter value correction mechanism configured to analyze said graphics processing control information, and based on an analysis result correct a standard image quality parameter value predetermined for said image quality parameter; and

20 an image quality adjustment mechanism configured to adjust the image quality of said graphics data based on said standard image quality parameter value corrected by said standard image quality parameter value correction mechanism and said image quality parameter value acquired by said image quality parameter value acquisition mechanism.

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21. A graphics processing device according to claim 20, wherein:

said standard image quality parameter values are a combination of parameter values selected from a plurality of values for said image quality parameter values, based on said graphics processing control information.

22. A graphics processing device according to claim 20, wherein:

said graphics processing control information includes correction information for at least one item of information relating to contrast, brightness,  
5 color balance, saturation, sharpness, memory color, and noise reduction.

23. A graphics processing device according to claim 20, wherein:

said graphics processing control information is stored with the graphics data within one graphics file.

24. A graphics processing device for performing graphics processing on graphics data that included in a single graphics file with graphics processing control information for use during image quality correction of graphics data, said graphics processing device comprising:

means for analyzing said graphics data;

means for acquiring image quality property information that indicates a property pertaining to an image quality of said graphics data; and

means for adjusting the image quality of said graphics data based on said graphics processing control information and said image quality property  
20 information.

25. The graphics processing device of claim 24, further comprising:

means for adjusting an image quality of said graphics data

26. A computer-executable program for performing image quality adjustment of graphics data on graphics data with graphics processing control information for use during image quality correction of graphics data, the graphics

processing control information being related to the graphics data, wherein said computer-executable program functions comprising:

analysis of said graphics data and acquisition of an image quality parameter value that indicates image quality properties of said graphics data;

5 analysis of said graphics processing control information, and based on an analysis result, correcting a standard image quality parameter value predetermined for said image quality parameter; and

adjustment of the image quality of said graphics data based on said corrected standard image quality parameter value and said acquired image quality parameter value.

27. A graphics data generating device for generating graphics data for use in an output device that outputs graphics data subjected to image quality adjustment processing, said graphics data generating device comprising:

15 a graphics data input mechanism configured to receive graphics data to subsequently be output by said output device;

an image quality adjustment processing condition designating mechanism configured to designate a condition for image quality adjustment processing of said graphics data performed by said output device;

20 an image quality adjustment data generation mechanism configured to generate image quality adjustment data, based on said condition for image quality adjustment processing designated by said image quality adjustment processing condition designating mechanism; and

25 a graphics data output mechanism configured to output said input graphics data related to image quality adjustment data.

28. A graphics data generating device according to claim 27, wherein:



said image quality adjustment data is data for correcting a standard image quality parameter used as a basis for image quality adjustment processing in image quality adjustment processing by said output device.

5           29. A graphics data generating device according to claim 27, wherein:

said image quality adjustment data is a standard image quality parameter value used as a standard value for image quality adjustment processing in image quality adjustment processing by said output device.

10           30. A graphics data generating device according to claim 27, wherein:

said image quality adjustment data is a combination of a plurality of standard image quality parameter values corresponding to image quality parameters representing image quality of said graphics data, and used as standard values for image quality adjustment processing by said output device.

15           31. A graphics data generating device according to claim 27, wherein:

said image quality adjustment data is data for designating an appropriate level of correction for correcting said graphics data calculated on the basis of a standard image quality parameter value used as a standard value for image  
20 quality adjustment processing by said output device and an image quality parameter value representing image quality of said graphics data.

32. A graphics data generating device according to claim 27, wherein:

said image quality adjustment data is data for designating a trend for  
25 correction of a plurality of standard image quality parameter values, corresponding to image quality parameters representing image quality of said graphics data, and used as standard values for image quality adjustment processing by said output device.

33. A graphics data generating device according to claim 32, wherein:

said image quality adjustment data includes data designating trends for correction of said standard image quality parameter values relating at least to contrast, brightness, color balance, saturation, sharpness, memory color, and noise reduction, for each said photographic condition.

34. A graphics data generating device according to claim 27, wherein said image quality adjustment processing condition designation mechanism comprising:

a display device configured to display said image quality adjustment processing condition; and

a determination mechanism configured to select and determine said image quality adjustment processing condition.

35. A graphics data generating device according to claim 27, wherein:

said graphics data output mechanism is configured to store the graphics data with said image quality adjustment data within one graphics file.

36. A graphics data generating device according to claim 27, further comprising:

a graphics generator configured to generate graphics data for output by said output device.

37. A graphics data generating device for generating graphics data for use in an output device that outputs graphics data subjected to image quality adjustment processing, said graphics data generating device comprising:

means for inputting graphics data for output by said output device;

means for designating a condition for image quality adjustment processing of said graphics data performed by said output device;

means for generating image quality adjustment data, based on said condition for image quality adjustment processing; and

5 means for outputting a single graphics file that contains said input graphics data and image quality adjustment data.

38. A method for generating graphics data for use in an output device that outputs graphics data subjected to image quality adjustment processing, comprising steps of:

inputting graphics data for output by said output device;

designating a condition for image quality adjustment processing of said graphics data performed by said output device;

generating image quality adjustment data, based on said designated condition for image quality adjustment processing;

relating said input graphics data to the image quality adjustment data; and outputting the related graphics data.

39. A method according to claim 38 wherein:

20 said image quality adjustment data is data for correcting a standard image quality parameter used as a basis for image quality adjustment processing in image quality adjustment processing by said output device.

40. A method according to claim 38 wherein said image quality adjustment data is a standard image quality parameter value used as a standard value for image quality adjustment processing in image quality adjustment processing by said output device.

41. A method according to claim 38, wherein:

said image quality adjustment data is a combination of a plurality of standard image quality parameter values corresponding to image quality parameters representing image quality of said graphics data, and used as standard values for image quality adjustment processing by said output device.

42. A method according to claim 38, wherein:

said image quality adjustment data is data for designating an appropriate level of correction for correcting said graphics data calculated based on a standard image quality parameter value used as a standard value for image quality adjustment processing by said output device and an image quality parameter value representing image quality of said graphics data.

43. A method according to claim 38, wherein:

said image quality adjustment data is data for designating a trend for correction of a plurality of standard image quality parameter values, corresponding to image quality parameters representing image quality of said graphics data, and used as standard values for image quality adjustment processing by said output device.

44. A method according to claim 38, wherein is said method is computer-implemented method.

45. A method according to claim 44, wherein:

said image quality adjustment data includes data designating trends for correction of said standard image quality parameter values relating at least to contrast, brightness, color balance, saturation, sharpness, memory color, and noise reduction, for each said photographic condition.

46. A method according to claim 38, further comprising:  
displaying said image quality adjustment processing condition; and  
selecting and determining said image quality adjustment processing  
condition.

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47. A method according to claim 38, further comprising:  
storing said graphics data with the image quality adjustment data within  
one graphics file.

48. A method according to claim 38, further comprising:  
generating graphics data for output by said output device.

49. A computer-executable program for generating graphics data for use  
in an output device that outputs graphics data subjected to image quality  
adjustment processing, wherein said computer-executable program performs  
functions comprising:

acquisition of graphics data for output by said output device;  
designation of a condition for image quality adjustment processing of said  
graphics data performed by said output device;  
generation of image quality adjustment data based on said designated  
condition for image quality adjustment processing;  
relation of said acquired graphics data to graphics output control data;  
and  
output of the related graphics data.

50. A graphics processing system for outputting graphics data from a  
graphics file that includes, in a single file, graphics data and graphics processing

control information for use during image quality correction of graphics data, said graphics processing system comprising:

a graphics data generating device including

means for acquiring said graphics data,

5 means for designating a condition for image quality adjustment processing of said graphics data,

means for generating image quality adjustment data based on said condition for image quality adjustment processing, and

means for generating a single graphics file that contains said acquired graphics data and graphics output control data; and

a graphics processing device including

means for analyzing said graphics data and acquiring image quality property information for said graphics data; and

means for adjusting the image quality of said graphics data to reflect said condition for image quality adjustment processing and said image quality property information.